

AMENDMENTS TO THE CLAIMS

1.(currently amended) An ink supply amount adjusting method for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising the steps of

obtaining reference opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset separate conversion curve of a respective ink color, of the relationship between an image area ratio and opening amounts of said ink fountain keys, and

uniformly correcting the obtained reference opening amounts of said ink fountain keys with preset correction values, thereby obtaining set values of the opening amounts of said ink fountain keys

2.(original) A method according to claim 1, further comprising the step of overwriting the correction values of the opening amounts of said ink fountain keys.

3.(original) A method according to claim 2, wherein the overwriting step comprises the steps of

obtaining the reference opening amounts of said ink fountain keys, prior to start of actual printing, by following the preset relationship between the image area ratio and the opening amounts of said ink fountain keys, and

obtaining correction values of the obtained reference opening amounts of said ink fountain keys on the basis of measured densities of a printing sample printed by using testing plates having the same image area ratio.

4.(currently amended) An ink supply amount adjusting method for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising the steps of

uniformly presetting correction values of opening amounts of said ink fountain keys,

correcting origin positions of the opening amounts of said ink fountain keys by using the preset correction values, and

setting the opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset separate conversion curve of a respective ink color, of the

relationship between an image area ratio and the opening amounts of said ink fountain keys.

5.(original) A method according to claim 4, further comprising the step of overwriting the correction values of the opening amounts of said ink fountain keys.

6.(original) A method according to claim 5, wherein the overwriting step comprises the steps of

obtaining reference opening amounts of said ink fountain keys, prior to start of actual printing, by following the preset relationship between the image area ratio and the opening amounts of said ink fountain keys, and

obtaining correction values of the obtained reference opening amounts of said ink fountain keys on the basis of measured densities of a printing sample printed by using testing plates having the same image area ratio.

7.(currently amended) An ink supply amount adjusting method for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising the steps of

presetting correction values of feed rates of said ink fountain rollers, and
correcting a preset reference feed rate of said ink fountain roller wherein the feed
rate is determined for a respective ink color by using the preset correction values,
thereby setting the feed rates of said ink fountain rollers.

8.(original) A method according to claim 7, further comprising the step of overwriting
the correction values of the feed rates of said ink fountain rollers.

9.(original) A method according to claim 7, further comprising the steps of
obtaining reference opening amounts of said ink fountain keys in accordance
with image area ratios of respective areas, corresponding to said ink fountain keys, of
said plate by following a preset relationship between an image area ratio and the
opening amounts of said ink fountain keys, and
uniformly correcting the obtained reference opening amounts of said ink
fountain keys with the preset correction values, thereby obtaining set values of the
opening amounts of said ink fountain keys.

10.(original) A method according to claim 7, further comprising the steps of
uniformly setting the correction values of the opening amounts of said ink
fountain keys,

correcting origin positions of the opening amounts of said ink fountain keys by using the preset correction values, and

obtaining the opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset relationship between an image area ratio and the opening amounts of said ink fountain keys.

11.(currently amended) An ink supply amount adjusting apparatus for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising

first calculating means for obtaining reference opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset separate conversion curve of a respective ink color, of the relationship between an image area ratio and opening amounts of said ink fountain keys, and

second calculating means for uniformly correcting the reference opening amounts of said ink fountain keys output from said first calculating means with preset

correction amounts, thereby obtaining set values of the opening amounts of said ink fountain keys.

12.(original) An apparatus according to claim 11, further comprising overwriting means for overwriting the correction values of the opening amounts of said ink fountain keys.

13.(original) An apparatus according to claim 12, wherein said overwriting means comprises

third calculating means for obtaining the reference opening amounts of said ink fountain keys, prior to start of actual printing, by following the preset relationship between the image area ratio and the opening amounts of said ink fountain keys, and setting means for setting the correction values of the reference opening amounts of said ink fountain keys output from said third calculating means on the basis of measured densities of a printing sample printed by using testing plates having the same image area ratio.

14.(currently amended) An ink supply amount adjusting apparatus for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to

a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller,
comprising

correction means for correcting origin positions of the opening amounts of said
ink fountain keys by using the preset correction values of the opening amounts of said
ink fountain keys, and

first calculating means for obtaining set values of the opening amounts of said
ink fountain keys in accordance with image area ratios of respective areas,
corresponding to said ink fountain keys, of said plate by following a preset separate
conversion curve of a respective ink color, of the relationship between an image area
ratio and the opening the amounts of said ink fountain keys.

15.(original) An apparatus according to claim 14, further comprising overwriting means
for overwriting the correction values of the opening amounts of said ink fountain keys.

16.(original) An apparatus according to claim 15, wherein said rewriting means
comprises

second calculating means for obtaining reference opening amounts of said ink
fountain keys, prior to start of actual printing, by following the relationship between the
preset image area ratio and the opening amounts of said ink fountain keys, and

setting means for setting correction values of the reference opening amounts of
said ink fountain keys output from said second calculating means on the basis of

measured densities of a printing sample printed by using testing plates having the same image area ratio.

17.(currently amended) An ink supply amount adjusting apparatus for a printing press having an ink fountain for storing an ink, an ink fountain roller to which said ink is supplied from said ink fountain, a plurality of ink fountain keys aligned in an axial direction of said ink fountain roller to adjust an amount of ink to be supplied from said ink fountain to said ink fountain roller, and an ink roller group for supplying said ink to a plate in an amount adjusted in accordance with a feed rate of said ink fountain roller, comprising

presetting means for presetting correction values of feed rates of said ink fountain rollers, and

first calculating means for correcting a preset reference feed rate of said ink fountain roller wherein the feed rate is determined from a separate conversion curve for a respective ink color by using the correction values obtained by said setting means, thereby obtaining set values of the feed rates of said ink fountain rollers.

18.(original) An apparatus according to claim 17, further comprising overwriting means for overwriting the correction values of the feed rates of said ink fountain rollers.

19.(original) An apparatus according to claim 17, further comprising

second calculating means for obtaining reference opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset relationship between an image area ratio and the opening amounts of said ink fountain keys, and

third calculating means for uniformly correcting the reference opening amounts of said ink fountain keys output from said second calculating means with preset correction values, thereby obtaining set values of the opening amounts of said ink fountain keys.

20.(original) An apparatus according to claim 17, further comprising

correcting means for correcting origin positions of the opening amounts of said ink fountain keys with the preset correction values of the opening amounts of said ink fountain keys, and

second calculating means for obtaining set values of the opening amounts of said ink fountain keys in accordance with image area ratios of respective areas, corresponding to said ink fountain keys, of said plate by following a preset relationship between an image area ratio and the opening amounts of said ink fountain keys.